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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,216	•	07/11/2003	John A. Pasko	TEC1238-01	4237	
832	7590	10/03/2005		EXAM	INER	
BAKER	& DANII	ELS LLP	DRODGE, J	DRODGE, JOSEPH W		
111 E. WAYNE STREET SUITE 800				ART UNIT	PAPER NUMBER	
	FORT WAYNE, IN 46802			1723		
				DATE MAILED: 10/03/2003	DATE MAILED: 10/03/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/618,216	PASKO, JOHN A.	
Office Action Summary	Examiner	Art Unit	
	Joseph W. Drodge	1723	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with t	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA' 36(a). In no event, however, may a reply vill apply and will expire SIX (6) MONTHS , cause the application to become ABANI	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	_•		
	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters	s, prosecution as to the merits is	
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-37 is/are pending in the application.			
4a) Of the above claim(s) 29-37 is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-28</u> is/are rejected.	•		
7) Claim(s) is/are objected to.			
8) Claim(s) 29-37 are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by	the Examiner.	
Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·	• •	
Replacement drawing sheet(s) including the correct			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached O	ffice Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 11	19(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
 Certified copies of the priority documents 	s have been received.		
2. Certified copies of the priority documents		•	
3. Copies of the certified copies of the prior		ceived in this National Stage	
application from the International Bureau			
* See the attached detailed Office action for a list	or the centiled copies not rec	eivea.	
		* =	
Attachment(s)			
1) Notice of References Cited (PTO-892)		mary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		ail Date nal Patent Application (PTO-152)	
Paper No(s)/Mail Date <u>0703</u> .	6) Other:		
S. Patent and Trademark Office			

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

Claims 1-28, drawn to a liquid level monitoring system, classified in class
 340, subclass 618.

II. Claims 29-37, drawn to a method of monitoring level in a wastewater handling system, classified in class 210, subclass 744.

Inventions II and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process, as claimed can be practiced by apparatus employing a permanent power source.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

During a telephone conversation with John Hoffman on September 26, 2005, a provisional election was made without traverse to prosecute the invention of Group I,

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claims 1-28. Affirmation of this election must be made by applicant in replying to this Office action. Claims 29-37 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

The inventions are distinct, each from the other because:

Claims 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 9, scope of "conventional" is unclear.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,16-18,and 22-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Steen et al PGPUBS document US2001/0024165.

Steen et al document '165 disclose battery power source to sensor module and processor (paragraph 6), wireless communication device having processor, software, ability to receive and send event messages (paragraphs 6,22,26 and 51), processing

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system to produce and route messages (paragraphs 23,27,44 etc.), and detector or probe modules to monitor liquid levels such as in manholes (paragraphs 24 and 56).

Regarding claims 17 and 18, 22-24 and 27, timers and other means are utilized for periodically powering up individual sensor modules (paragraphs 35-45).

Regarding claims 25 and 26, the system includes self testing of functioning of the sensor modules (paragraphs 51 and 53).

Paragraph 22 concerns various cellular networks including GSM systems.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 2,4-13 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steen et al document '165 in view of Tullis patent 3,781,624 and Farr patent 5,238,369, of record. Claims 2-13 and 19-21 differ from Steen et al in requiring the sensor module to include a capacitive probe, although Steen '165 does further disclose a capacitive sensing circuit (paragraph 56). Tullis teaches that such capacitive probe for sensing liquid levels in environments similar to manholes is known (column 2, lines 5-19, column 5, lines 19-37, while Farr teaches that capacitive detectors are advantageous in determinations of liquid levels in sumps and water tanks subject to wide variations in water levels. It would have been obvious to one of ordinary skill in the art to have utilized capacitive level sensing elements, as suggested by Farr '369 and Tullis, in order to provide an accurate record of rapidly and widely varying water levels without damage to the detector elements.

Regarding claims 6,7,8 and 20, Tullis in column 6, lines 10-48 teaches to mount a level sensor to the mounting ring of a manhole, while Steen et al discloses mounting of level sensors to manhole covers, with their exending downwardly therefrom.

Regarding claims 9 and 22, Steen et al also disclose various types of antenna transmission components and relaying of event messages over cellular communication systems or to the Internet.

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Claims 3 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Steen et al document '165 in view of Tullis and Farr, as applied to claim 2 above, and further in view of Heger patent 6,568,264. Claims 3 and 21 further differ in requiring the sensor to comprise dielectric insulation. Such electrical insulation or dielectric insulation or cover is taught by Heger at column 1, lines 45-55. It would have been further obvious to have utilized such dielectric insulation to protect the electrodes or metallic parts of the detector from corrosion or other damage due to periodic immersion.

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Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Steen et al document "165 in view of Steen et al patent 6,510,350. Claim 14 further differs in requiring the wireless device to comprise a GPS locator, although similar, related transmissions are mentioned in paragraph 22 of '165. The patent teaches such GPS system in column 10, lines 49-67. It would have been obvious to one of ordinary skill in the art to have utilized the GPS system of Steen patent '350 in the Steen '165 communications system, to precisely display locations of sensor data and faulty sensors to field units receiving sensor information.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Drodge at telephone number 571-272-1140. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can reached at 571-272-1151. The fax phone number for the examining group where this application is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or Public PAIR, and through Private PAIR only for unpublished applications. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JWD

September 28, 2005